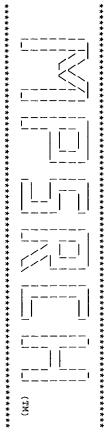
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Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by Intelligenetics, Inc.

MPsrch\_pp protein - protein database search, using Smith-Waterman algorithm

on: Wed Aug 20 09:42:15 1997; MasPar time 18.26 Seconds 634.466 Million cell updates/sec

Title: >US-08-469-637A-2
Description: (1-401) from US08469637A.pep (1 of 2)
Perfect Score: 3030
Sequence: 1 MNKLLCCALVFLDISIKWTT.....QKLFLEMIGNQVQSVKISCL 401

Searched: 91006 seqs, 28888923 residues

Scoring table:

PAM 150 Gap 11

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: pir51

pir51
1:ann1 2:ann2 3:ann3 4:ann4 5:unann1 6:unann2 7:unann3
8:unann4 9:unann5 10:unann6 11:unann7 12:unann8
13:unann9 14:unann10 15:unenc 16:unrev

Statistics: Mean 46.537; Variance 102.690; scale 0.453

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

					-		
sult No.	Score	% Query Match	Length I	DB	IJ	Description	Pred. No.
دبر	398	13.1	461	σ	A35356	tumor necrosis facto	3.16e-47
2	377	12.4	459	14	85	gene murine tumour n	1.46e-43
ω	375		474	σ	B38634	tumor necrosis facto	
4	303		277	ü	A60771	B-cell activation pr	.84e-3
رب س	294	9.7	289	14	A46515	B cell-associated su	2.21e-29
σ	294		0	14	A46476	CD40 - mouse	.21e-2
7	269		N	N	GQVZML	T2 protein - myxoma	3.14e-25
œ	260		N	σ	B43692	- ra	.43e-2
φ	260		w	7	I54182	tumor necrosis facto	.43e-2
10	233	7.7	349	œ	3685	G4R protein - variol	2.20e-19
11	230	•	w	9	1.1	otei	.62e-
12	221		454	14	I57826	necrosis	e-1
13	221	7.3	UП	N	GQMST1	tumor necrosis facto	7e-1
14	220	7.3	461	N	GQRTT1	tumor necrosis facto	4e-1
15	215		$\vdash$	თ	JN0006	nerve growth factor	.55e-1
16	213	7.0	427	N	GQHUN		3.20e-16
17	207		N1	σ	A26431	H	5e-1
18	186		$\mathbf{a}$	14	JC4302	tumor necrosis facto	٠.
19	178		10	3	A42086	CD30 antigen precurs	7.07e-11
20	172		ŧπ	2	GQHUT1	tumor necrosis facto	5.44e-10
21	162	5.3	260	N	A46517	CD27 antigen precurs	1.55e-08

45	43	42	41	40	39	38	37	36	<u>ა</u>	34	ω ω	32	31	30	29	28	27	26	25	24	23	22
86	100	101	100	100	102	104	103	105	110	115	124	124	134	134	134	137	140	141	144	146	154	159
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cha	desmoplakin I - huma	fructos		Fas/Apo-1/CD95 prote	laminin chain A prec	intermediate filamen	hypothetical protein	ρ	rec		A53R protein - vacci	F16R F	apoptosis-mediating	FAS soluble protein	CD27 antigen precurs	apoptosis-mediating	APO-1 antigen, Fas a	hocyte		OX40 antigen precurs	Fas antigen - rat	T-cell antigen 4-1BB
96	1.956+00	. 5	in	. 95e	<u>:-</u>	6.81e-01	œ	'n	.34e	.30e	.44e	.446	. 20€	1.20e-04	. 20€	.76e	1.87e-05	.37e	.31e	.81e	2.14e-07	4.17e-08

## ALIGNMENTS

RESULT

-referen sion tatus olecule_ esidues ross-ref	##cross-refe REFERENCE D #authors D #journal C #title T	#journal Proc #title A see a references a references in A364 #accession A364 ##molecule_type ##residues	#cross-references i #accession A353 #status ##status ##molecule_type ##residues ##residues ##cross-referen REFERENCE A364 #authors M.1	ENTRY TITE ALTERNATE_NAMES
distinct intracellular, domain sequences. ccross-references MUID:91370690 accession A48416 ##status preliminary ##molecule_type mRNA; protein ##residues 23-461 ##label DEM ##cross-references NCBIN:63368; NCBIP:63371	erences GB:M38549 A48416 Demblc, Z.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lahm, H.W.; Demblc, R.; Brockhaus, M.; Lesslauer, W. Gentz, R.; Brockhaus, M.; Lesslauer, W. Cytokine (1990) Z:231-237 Cytokine (1990) Z:231-237	journal proc. Natl. Acad. Sci. U.S.A. (1990) 87:8331-8335  *title A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor.   *cross-references wurd: 91045991  *accession A36475  ###cesidues preliminary  ###residues 1-195,'R',197-461 ##label KOH	JAMUID:90260639 Jeeliminary e mRNA 1-461 ##label SMI nces GB:M32315 475 A75 INO, T.; Brewer, M.T.; Baker, NO, T.; Hale, K.K.; Squires, C.	A35356 #type complete tumor necrosis factor receptor type 2 precursor - human 75K tumor necrosis factor receptor #formal_name Homo sapiens #common_name man A3536; A36475; A48416; A36007; A23666; B35010; I38094 A35356; A36475; A48416; A36007; A23666; B35010; I38094 A35356 Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerzy, R.; Dower, S.K.; Cosman, D.; Goodwin, R.G. Science (1990) 248:1019-1023 A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins.

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FEATURE
1-22
                                                                                     SUMMARY
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Query Match
Best Local S
Matches 6
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78-119
120-162
164-201
262-279
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171,193
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#journal Proc. Natl. Acad. Sci. U.S.A. (1990) 87:6151-6155

#title Complementary DNA cloning of a receptor for tumor necrosis factor and demonstration of a shed form of the receptor.

#cross-references_MUID:90349572
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ap_position 1p36.2-1p36.2
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##residues 27-31 ##label
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Similarity 43.8%;
63; Conservative
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Heller, R.A.: 5077 "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cloning, sequencing and partial functional characterization of the 5' region of the human p75 tumor necrosis factor receptor-encoding gene (TNF-R).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              J. Biol. Chem. (1990) 265:1531-1536
Two tumor necrosis factor-binding proteins purified from human urine. Byidence for immunological cross-reactivity with cell surface tumor necrosis factor receptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Loetscher, H.; Schlaeger, E.J.; Lahm,
Lesslauer, W.; Brockhaus, M.
J. Biol. Chem. (1990) 265:20131-20138
                                                                                                                                                                                                                                                                                                                                                         #superfamily tumor necrosis factor receptor receptor repeat homology duplication; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Purification and partial amino acid sequence analysis distinct tumor necrosis factor receptors from HL60 c
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Gene (1994) 150:381-386
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#product tumor necrosis factor receptor type 2 #statu
experimental #label MAT\
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                                                                                #molecular-weight 48291
Score 398; DB 6;
Pred. No. 3.16e-47;
19; Mismatches 55
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                                          #authors Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#journal Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific.
#cross-references MUID:91187885
#accession B38634
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##molecule_type mRNA
##residues 1-474 ##label LEW
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B38634 #type complete
tumor necrosis factor receptor type 2 precursor - mouse
#formal_name Mus musculus #common_name house mouse
30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
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llarity 41.5%;
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#length 459 #checksum 3156
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Pred. No. 1.46e-43;
21; Mismatches 61
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##molecule_type DNA
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NCE $54816
                                                                  ##cross-references EMBL:X60592
                                                                                                     ##residues
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##cross-references EMBL:X87128
FICATION #superfamily tumor necrosis factor receptor type
                                                                                                                   ##molecule_type mRNA
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les 66; Conservation
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B-cell activation protein CD40 precursor -
B-cell surface antigen Bp50
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Braesch-Andersen, S.; Paulie, S.; Aspenstroem, P.; Perlmann, P. J. Immunol. (1989) 142:562-567
                                                                                                                                                                                              Stamenkovic, I.; Clark, E.A.; Seed, B.
EMBO J. (1989) 8:1403-1410
A B-lymphocyte activation molecule related to the
growth factor receptor and induced by cytokines
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Molecular cloning and expression of the type 1 and murine receptors for tumor necrosis factor.
                                                                                                                                            S04460
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#domain NGF receptor repeat homology #label NG2\
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#domain NGF receptor repeat homology #label NG4
#th 474 #molecular-weight 50319 #checksum 7767
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#product tumor necrosis factor receptor type
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#map_position 20q12-20q13.2
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##note sequence extracted from NCBI backbone
## #Iength 289 #molecular-weight 32111 #che
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##residues 21-50 ##label
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taesdtvctckegqhctskdceacaqhtpcipgfgvmematettdtvchpcpvgffsnqs 155
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                                                                                             CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKELQYVKQEC
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Similarity 36.8%;
56; Conservation
                                                                                                                                                                                                                                                       9.7%;
Similarity 38.8%;
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B cell-associated surface molecule CD40 - mouse
#formal_name Mus musculus #common_name house mouse
18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
03-Mar-1995
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J. Immunol. (1992) 149:3921-3926
Genomic structure and chromosomal mapping
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*product B-cell activation protein CD40 *status
experimental *label MAT\
#domain extracellular *status predicted *label EXT\
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#binding_site carbohydrate (Asn) (covalent) *status
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                                                                                                                                                                                                                     Score 294; DB 14;
Pred. No. 2.21e-29;
20; Mismatches 65
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Pred. No. 6.84e-31;
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                                                                                                                                                                  ##residues
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Local Similarity 38.8%;
les 59; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     taesdtvctckegqhctskdceacaqhtpcipgfgymematettdtvchpcpvgffsnqs 155
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                                                                                                                             #superfamily myxoma virus
                                                                                                                                                                                                     A40566
                                                                                                                                                                                                                                   Upton, C.; Macen, J.L.; Schreiber, M.; Mcfadden, G. Virology (1991) 184:370-382 Myxoma virus expresses a secreted protein with homology the tumor necrosis factor receptor gene family that contributes to viral virulence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Torres, R.M.; Clark, E.A.
J. Immunol. (1992) 148:620-626
Differential increase of an alternatively polyadenylated species of murine CD40 upon B lymphocyte activation.
                                                                                                 glycoprotein
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#formal_name myxoma virus
31-Dec-1992 #sequence_revision
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#length 305 #molecular-
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#binding_site carbohydrate (Asn) (covalent)
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h 326 #mo:
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#molecular-weight 33617 #che
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Pred. No. 2.21e-29;
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                               #cross-references MUID:93252381
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Local Similarity 33.8%;
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                                                                                                                                                                                                                                                                                          SSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNSESTQKCGIDVTL 201
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                                                                                                                                                                                                                                                                                                                                                                                                                     CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQECNRT
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Similarity 30.5%;
51; Conservative
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T2 protein - rabbit fibroma virus
fformal_name rabbit fibroma virus, Shope fi
30-Sep-1993 #sequence_revision 30-Sep-1993
                                              Genomics (1993) 16:214-218
Construction and evaluation of a
transcribed sequences derived i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #domain NGF receptor repeat homology #label
#domain NGF receptor repeat homology #label
#length 325 #molecular-weight 35132 #checksum 4
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Virology (1987) 160:20-30
                                                                                                           Baens, M.; Chaffanet, M.; Cassiman,
                                                                                                                                                                        #formal_name Homo sapiens #common_name man 24-May-1996 #sequence_revision 24-May-1996
                                                                                                                                                                                                         tumor necrosis
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preliminary;
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                                                                                                                                                                                                        #type complete
sis factor receptor 2-related protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 260; DB 6; L
Pred. No. 9.43e-24;
31; Mismatches 77;
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Pred. No. 3.14e-25;
25; Mismatches 58
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                                               hncDNA library from a somatic
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##residues 1-435 ##label RES
##cross-references GB:L04270; NID:g339761; CDS_PID:g339762
##cross-references GB:L04270; NID:g339761; CDS_PID:g339762
121 ssgckacvsqtkcgigygvs-ghtsvgdvicspcgfgtyshtvssadkc 168
                                                                                                                                                                                                                                                                                                                                                                                                                     ##residues 1-349 ##label KOL
##cross-references EMBL:X67117
##experimental_source strain India-1967, isolate Ind3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ##molecule_type DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##molecule_type DNA
##residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    145 CPDGFFSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNIC 185
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NCE S46868
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Local Similarity 32.3%;
les 52; Conservation
                                                                   58
                                                                                                                                                                                                                                                         Match 7.7%;
Local Similarity 32.0%;
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                                                                                                                                                                                       1 mksvlylyilflsciiingrdaapytppngkckdteykrhnlcclscppgtyasrlcdsk 60
                                                                                         ckaghfqntsspsarcqphtrcengglveaapgtaqsdttc 210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            eelap-ctskrktqcrcqpgmfcaawalecthcellsdcppgteaelkdevgkgnnhcvp 169
                                                                                                                                                  MNKLLCCALVFLD-ISIKWTTQETFPPKYLHYDE-E-TSHQLLCDKCPPGTYLKQHCTAK 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKEL 90
                                                                 WKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQECNRTHNRVCECKEGRY --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kolykhalov, A.A.; Blinov, V.M.; Gytorov, V.V.; Pozdnyakov, S.G.; Chizhikov, V.E.; Frolov, I.V.; Totmenin, A.V.; Shchelkunov, S.N.; Sandakhchiev, L.S. submitted to the EMBL Data Library, April 1992 Nucleotide sequence analysis of the region of variola viru XhoI F O H P Q genome fragment.
                                                                                                                                                                                                                                                                                                                    #domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG3
#length 349 #molecular-weight 38189 #checksum 2016
                                                                                                                                                                                                                                                                                                                                                                                                     #superfamily NGF receptor repeat homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S46888
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                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1-349 ##label BLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              preliminary
                                                                                                                                                                                                                                 Score 233; DB 8; Length 349;
Pred. No. 2.20e-19;
26; Mismatches 79; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 260; DB 13; Length 435; Pred. No. 9.43e-24; 23; Mismatches 75; Indels 1
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                                                                                                                                                                                                                                     Indels 10;
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LQYVK-QECNRTHNRVCECKEG----RYL-EIEF-CLKHRSCPPGFGVVQAGTPERNTVCK 143

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#title
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#accession I57826
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                                                                                                                                                                                                                                                                  **scarus preliminary; translated from ##molecule_type DNA ##rosia...
   109
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##residues 1-138 ##label SHC
##cross-references EMBL:X69198
#length 138 #checksum 6036
                                                                                                                                                                                                                                       ##residues 1-454 ##label
##cross-references GB:M76656;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          151 SNETSSKAPC 160
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Local Similarity 35.4%;
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                                                       shtvssadkc 138
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                                 YDEETSHQLLCDKCPPGTYLKQHCTAK-WKTVCAPCPDHYYTDSWHTSDECLYCSPVCKE
                                                                                                  h 7.3%;
Similarity 33.1%;
48; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    46;
                                                                                                                                                                                                                                                                                                                                           Mol. Immunol. (1993) 30:165-176
Genomic organization and promoter function of tumor necrosis factor receptor beta gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shchelkunov, S.N.; Blinov, V.M.; Sandakhchiev, L.S. FEBS Lett. (1993) 319:80-83 Genes of variola and vaccinia viruses necessary to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $32385 #type fragment
gene G4R protein - variola virus (fragment)
formal_name Variola virus
22_Nov-1993 #sequence_revision 22-Nov-1993 #text_change
                                                                                                                                                                       gene name TNFR-2
#length 454 #mc
                                                                                                                                                                                                         13/3; 65/1; 108/1; 158/1; 184/2; 210/1; 248/1; 257/3; 353/1
                                                                                                                                                                                                                                                                                                                                                                                                                 Rothe, J.G.; Bluethmann,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 157826 #type complete
tumor necrosis factor receptor - mouse
#formal_name Mus musculus #common_name house mouse
02_Aug-1996 #sequence_revision 02-Aug-1996 #text_change
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                                                                                                                                                                       #molecular-weight 50030 #checksum 4267
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Pred. No. 6.62e-19;
19; Mismatches 58
                                                                                                  Score 221; DB 14; Length 454; Pred. No. 1.77e-17; 21; Mismatches 65; Indels 1
                                                                                                                                                                                                                                           NID: g202100; CDS_PID: g202102
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                                                                                                                                                                                                                                                                                                                                                                                                               Gentz, R.;
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#title
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #authors Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brann C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A. #journal Mol. Cell. Biol. (1991) 11:3020-3026
#title Molecular cloning and expression of the type 1 and type murine receptors for tumor necrosis factor.
#cross-references_MUID:91246168
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#accession I54532
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#journal Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2834

Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is specifes specific.
                                                                                                                                                                                                                                                                                                                authors
                                                                                                                                                                                                                                                                                          journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           authors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    journal
                   ##residues 1-454 ##label RES
##cross-references GB.L26349; NID:9430732; CDS_PID:9430733
This protein is one of two distantly related receptors for both
TNF-alpha (cachectin) and TNF-beta (lymphotoxin).

(FICATION #superfamily tumor necrosis factor receptor type 1; NGF
                                                                                                                                                                                                                                                                                                                                                             ##residues 1-454 ##label ROT ##cross-references EMBL:X57796
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                                                                                                                                           ##molecule_type mRNA
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##cross-references GB:M60468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissonerghis A.M.; Gray, P.W.; Feldmann, M.; Foxwell, B.M.J.

Bur. J. Immunol. (1991) 21:1649-1656

Cloning, expression and cross-linking analysis of the murine p55 tumor necrosis factor receptor.
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tumor necrosis factor receptor type 1 precursor - 1
tumor necrosis factor receptor, 55K
tumor necrosis factor receptor, 55K
#formal_name Mus musculus #common_name house mouse
30-Jun-1992 #sequence_revision 30-Jun-1992 #text_cb
18-Oct-1996
                                                                                                                                                                                                                                     Immunogenetics (1994) 39:450-451
Nucleotide sequence of the TNF type I receptor from endothelioma_cell line.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rothe, J.G.; Brockhaus, M.; Gent
Immunogenetics (1991) 34:338-340
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                                                                                                                                                                  translated from GB/EMBL/DDBJ
repeat homology
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Best Local S
Matches 4
                                                                    44-82
84-126
127-167
168-204
212-234
235-461
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127-167
168-204
213-235
236-454
                                                                                                                                                                                                                                30-211
30-201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #title Molecular cloning and expression of human and rat tumor necrosis factor receptor chain (p60) and its soluble derivative, tumor necrosis factor-binding protein. #cross-references MUID:91090841 #accession B36555
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##cross-references GB:M63122

VT This protein is one of two known receptors for both TNF-alpha

(cachectin) and TNF-beta (lymphotoxin).

(FICATION #superfamily tumor necrosis factor receptor type 1; NGF

receptor repeat homology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfizenmaier, K.; Lantz, M
Stratowa, C.; Adolf, G.R.
DNA Cell Biol. (1990) 9:705
  #length
                                                                                                                                                                                                                                                                                                                                                                       duplication; glycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tumor necrosis factor receptor type 1 precursor - rat
tumor necrosis factor binding protein 1 (TNF blocking fa
#formal_name Rattus norvegicus #common_name Norway rat
30-Jun-1992 #sequence_revision 07-Oct-1994 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Himmler, A.; Maurer-Fogy,
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#product tumor necrosis factor receptor type 1 #status
predicted #label MAT\
#domain extracellular #status predicted #label EXT\
#domain NGF receptor repeat homology #label NG1\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
#domain NGF receptor repeat homology #label NG4\
#domain transmembrane #status predicted #label MEM\
#domain intracellular #status predicted #label INT
length 454 #molecular-weight 50129 #checksum 4839
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                                                                                                            predicted #label TBP\
#domain NGF receptor repeat homology #label NG1\
#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
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#product tumor necrosis factor binding protein #status
                                            #binding_site carbohydrate (Asn) (covalent) #status
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toomain intracellular *status predicted *label INT\
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33.1%;
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#molecular-weight 50969
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Pred. No. 1.77e-17
21; Mismatches 6
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Olsson,
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    #checksum 1617
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Best Local Similarity 33.8%;
Matches 49; Conservative
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       21-239
21-182
24-57
59-100
101-139
141-189-237
240-261
262-416
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#title
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #authors Large, T.H.; Weskamp, G.; Helder, J.C.; Radeke, M.J.; Miskon, T.P.; Shooter, E.M.; Reichardt, L.F.
#journal Neuron (1989) 2:1123-1134
#title Structure and developmental expression of the nerve growth factor receptor in the chicken central nervous system.
#cross-references MUID:90166579
                                                                                                                                                                                                                                                                                     21-416
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##molecule_type mRNA
##residues 21-35'Y',37-172,'K',174-275,'S',277-395,'R',397-416
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##experimental_source embryonic chick brain

NCE A60504
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                                                                                                                                                                                                                                                                                                                                                                                                                               This receptor is found on sensory and sympathetic neurons, on neuroblastoma cells, and on a variety of nonneuronal derivatives of the neural crest.

The cysteine-rich region of the extracellular domain may form part or all of the NGF-binding site.

This protein is thought to form a high-affinity receptor when it associates with the 140K trk proto-oncogene, which contains an intracellular tyrosine kinase domain.

TION #superfamily nerve growth factor receptor; NGF receptor
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nerve growth factor receptor, low affinity -
NGF receptor
                                                                                                                                                                                                                                                                                                                                                             duplication; glycoprotein; heterodimer; monomer;
phosphoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Heuer, J.G.; Fatemie-Nainie, S.; Wheeler, E.F.; Bothwell, Dev. Biol. (1990) 137:287-304
Structure and developmental expression of the chicken NGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #formal_name Gallus gallus #common_name chicken
07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
05-Apr-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A60504
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#domain extracellular #status predicted #label EXT\
#region cysteine-rich\
#domain NGF receptor repeat homology #label NG1\
#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
#region serine/threonine-rich\
#domain transmembrane #status predicted #label NMA\
#domain intracellular #status predicted #label INT\
#binding_site carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                            repeat homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    eceptor.
                                                                                                                                                                                                                                                        #domain signal sequence #status predicted #label SIG\
#product nerve growth factor receptor #status predicted
#label MAT\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Radeke, M.J.; Misko,
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Best Local Similarity 30.4%;
Matches 45; Conservative
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#length 416 #molecular-weight 44654 #checksum
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Pred. No. 1.55e-16;
27; Mismatches 70;
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